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	10	20	30	40	50
GFP	MSKGEEL	FTGVVPTLVELDGDVNGHKFSVS	GEGE	GDATEY	GKLTTLKRICTTGKLPVPWPT
phiYFP	--S-AL-	H-KT-YV-ME-N-D--T-	IR-K-Y-	SV-VDAQ--	DV--S-
hydr1GFP	MT-T-QKKL-YKT-	D-OT-K-I--V--	T-VTEG-YV-	E-EV-	IS-VS
hm2CP	-EG-PA-	QSDMTEKIFL-V-	DQ-TTIA	DSSKFPH-DENVHAV-	E---MS-KP

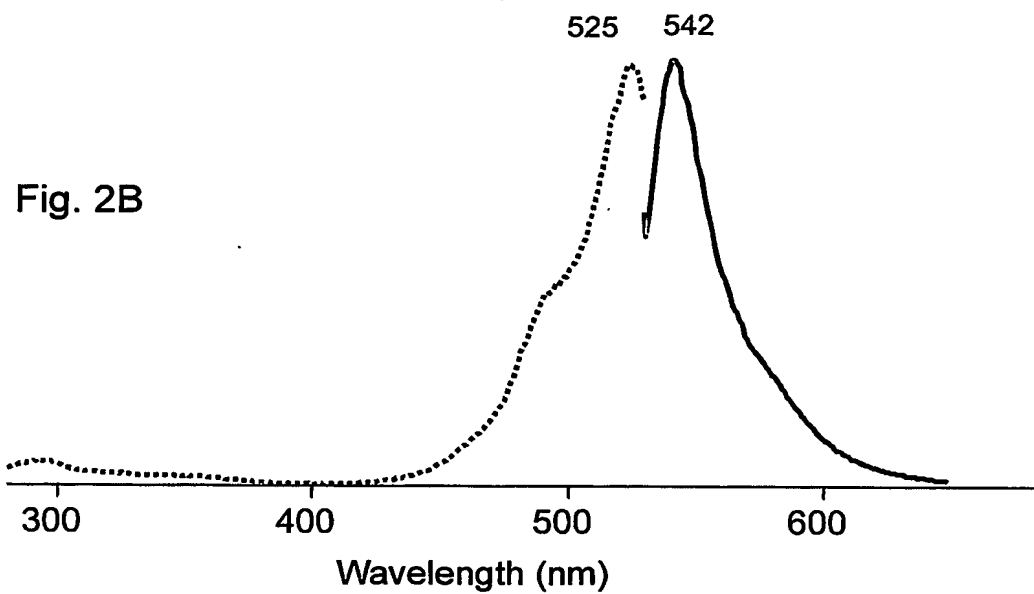
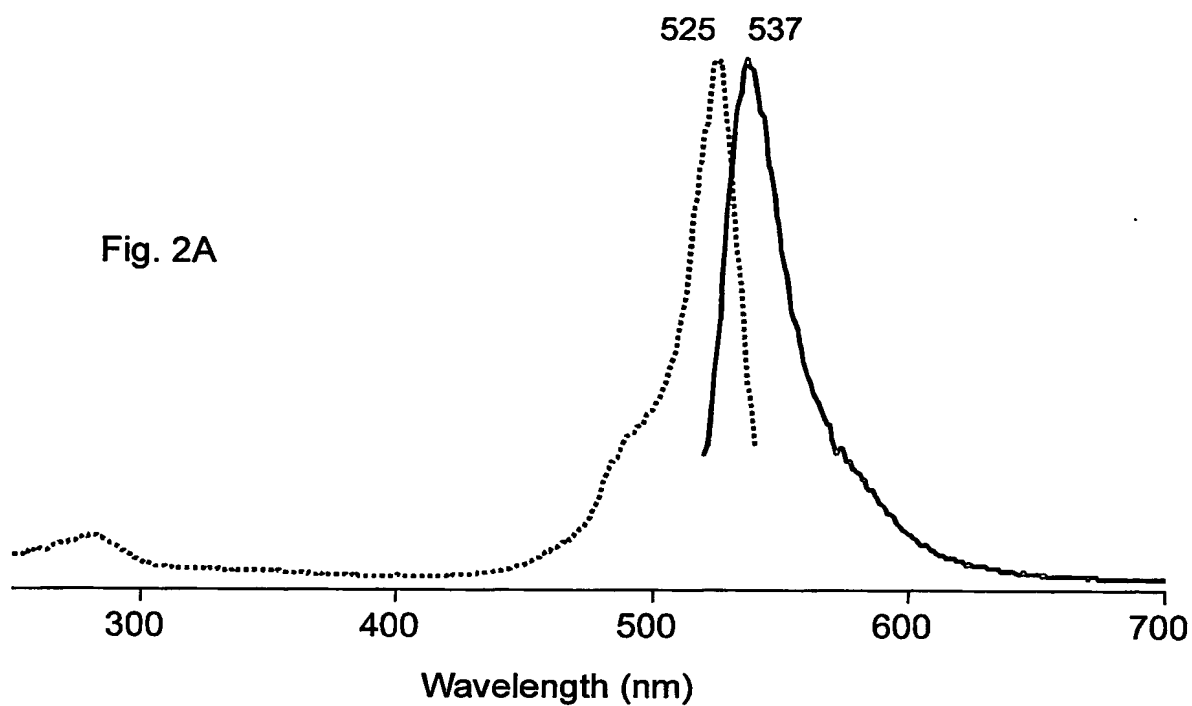
	60	70	80	90	100	110
GFP	LVTTFSYGVQCF	SRYPDHMKQHDE	FFKSAM	PEGYVQERTT	FEKDDGNYKTRAEV	KFEEDT
phiYFP	--LT--A--AK-	GPELK..-Y-C-	T-EG--VF-	T-NGS		
hydr1GFP	-I-SL--AK-V-	NEIN..-TF-S-	H-K-TYEN--	VIE-A-KITM-	SGA	
hm2CP	ICHLIQ--EPF-AK-	NGIS..H-AQECE-	ITID--VR-	EN--TMTSHHTYELD-	TC	

	120	130	140	150	160	170
GFP	LVNRRIELKGI	DEKEDGNILGHKLEYN	YNSHNMYT	MADKQKNGIKVNEKIR	RHNIEDGS	VQL..
phiYFP	VY--VK-N-QG--	K--HV--KN--	F-FTP-CH--	WG-QANH-L-SA--	M-E-TGSKEDFIV	
hydr1GFP	I--NV--TG-DK--	HVCQKN--SSPP-	TTYVV...PEGE-	RIIXRNIIPTK--	HYVV..	
hm2CP	VIS-ITVNC	DG-QP--P-MKDQ-	VDILPTETHMEP..	HGS-AVRQLGY-	GFTTA--GLMM..	

	180	190	200	210	220	230
GFP	ADHYQONTPIGD.	GPVLLPDNHYLST	QSALSKDPNEKRDH	MVLEFVTAAGITHG	MDELYK	
phiYFP	--T-M-----	G---HV-EY-HITYHVT	---VTDH--N-S-V-T-R-	VDCRKYTL		
hydr1GFP	--IQ-V-R--RAQ-	TSATY-HIKSKMD-	T--E-NK--TITK-TNC-	FDADFS		
hm2CP	SHEDSKL-FN-SRAIKI-	GP-FVTMIKQK-	TSD---VQOR-VTY-	HSVPRITSAI		

Fig. 1

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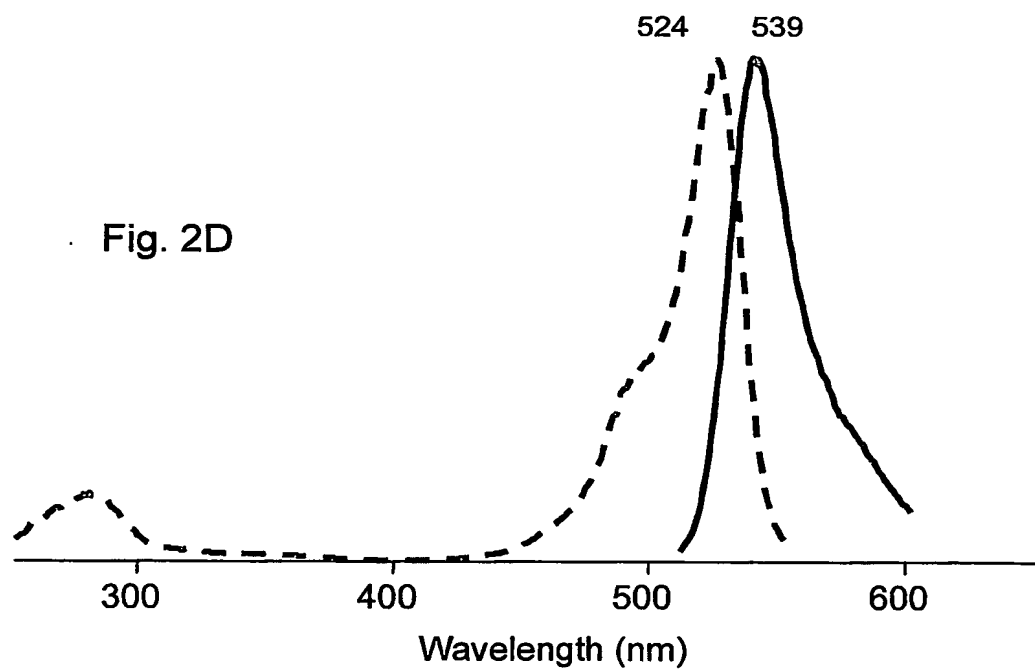
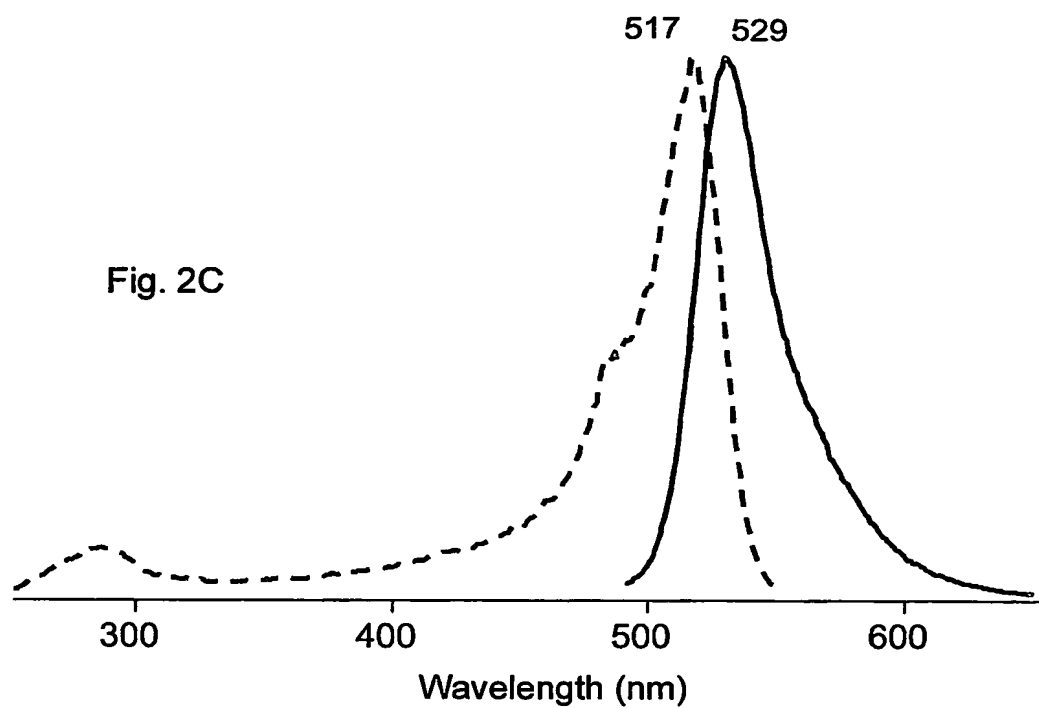


Fig. 2

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Fig.3A

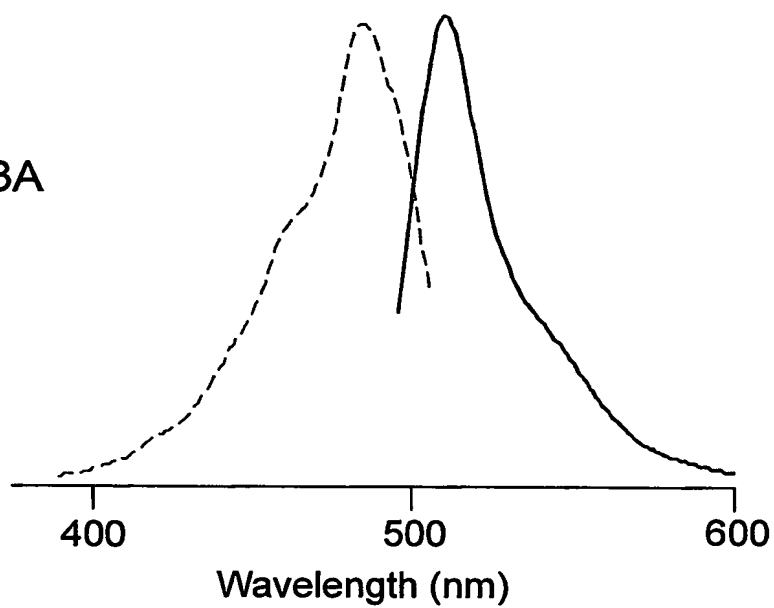


Fig.3B

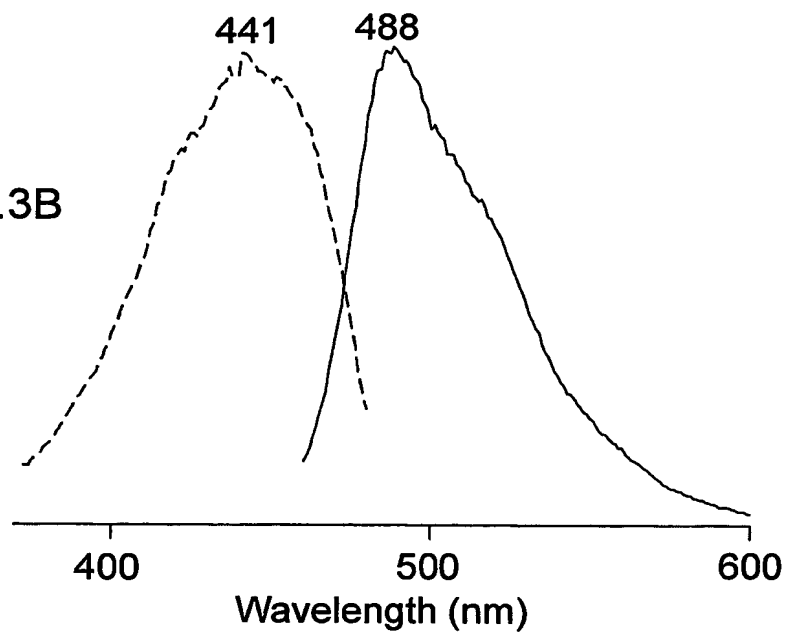


Fig. 3

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Fig.4A

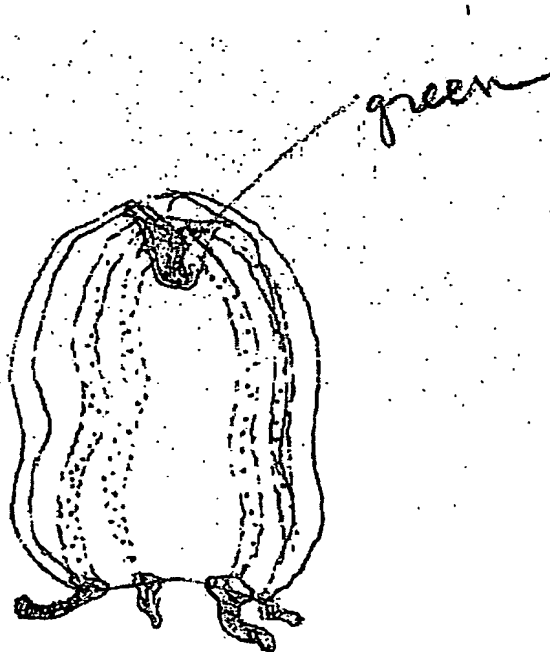


Fig.4B

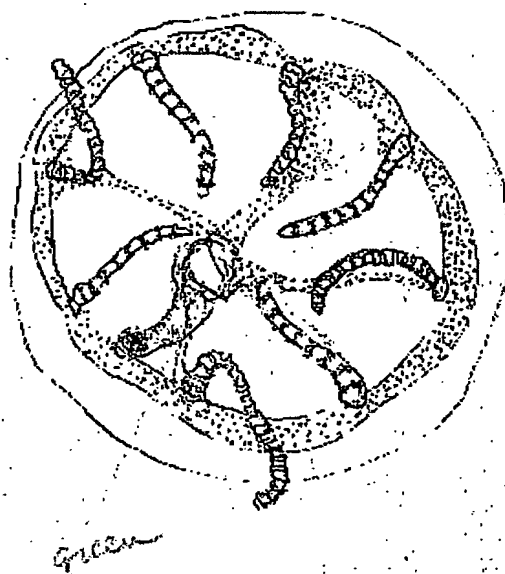


Fig. 4

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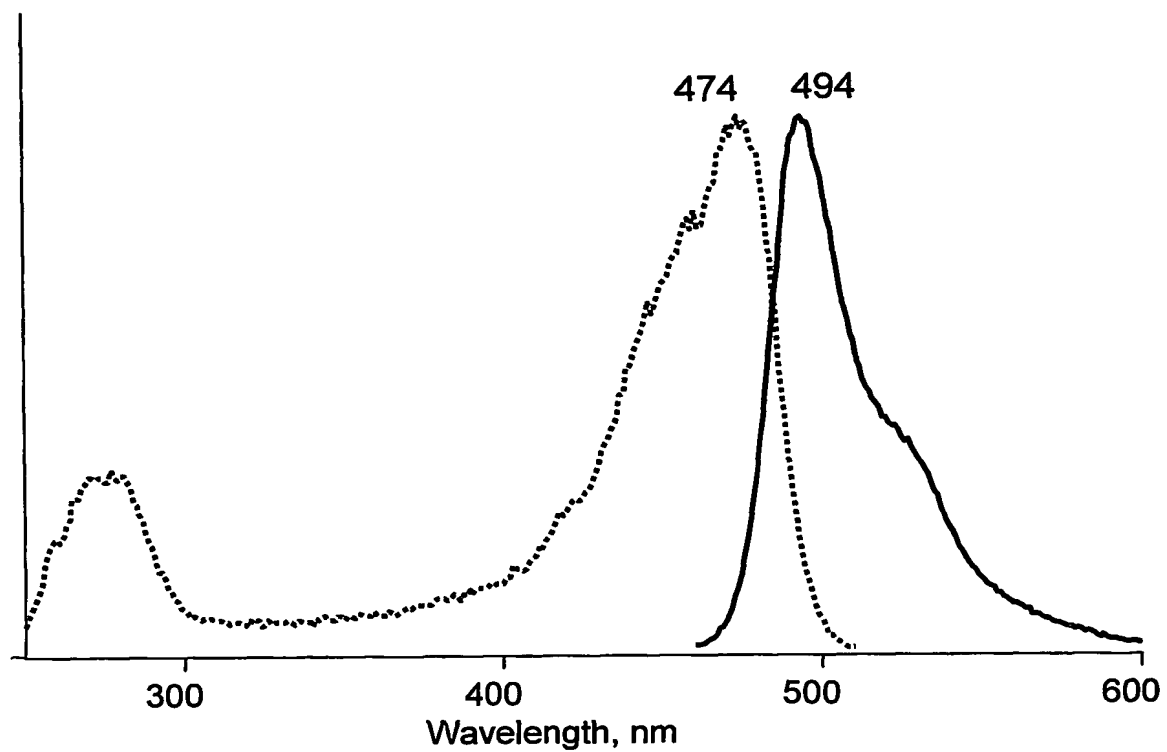


Fig. 5

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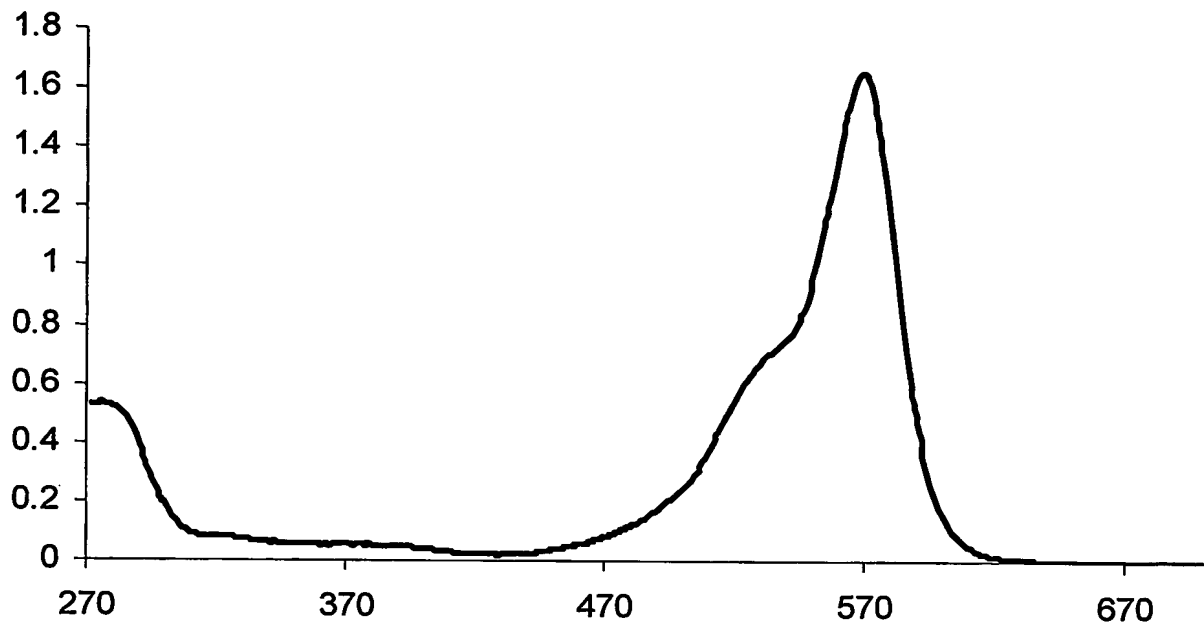


Fig. 6

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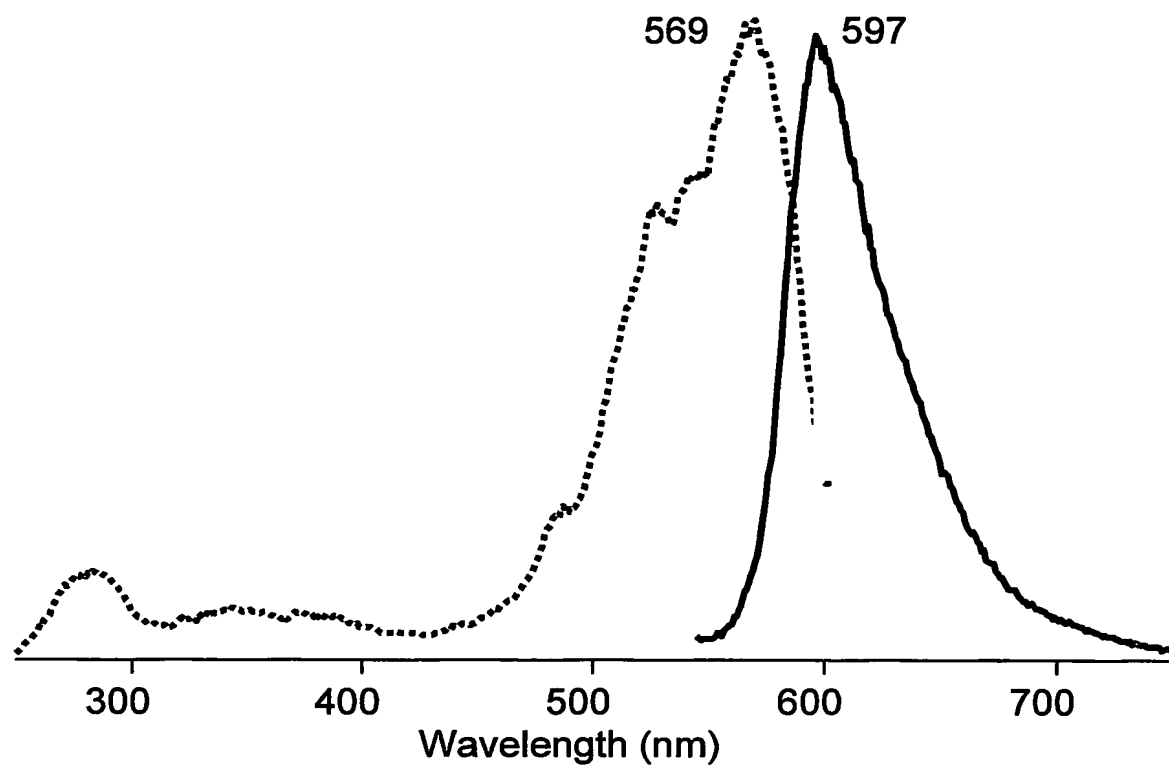


Fig. 7

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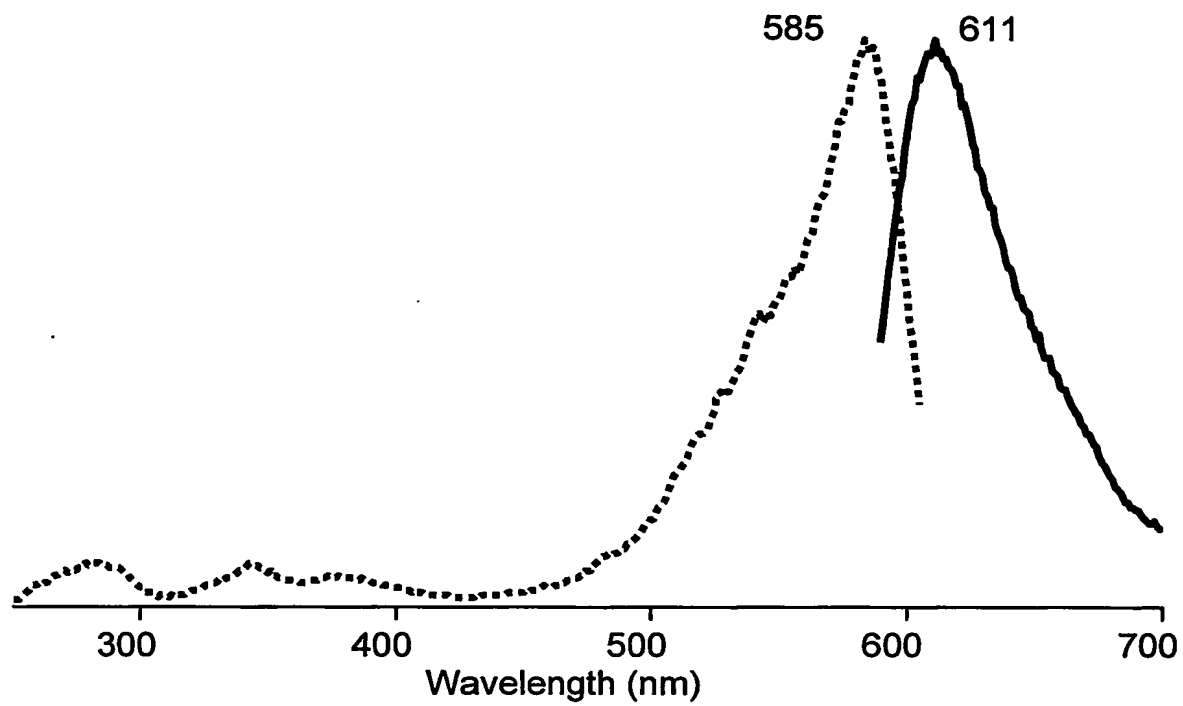


Fig. 8